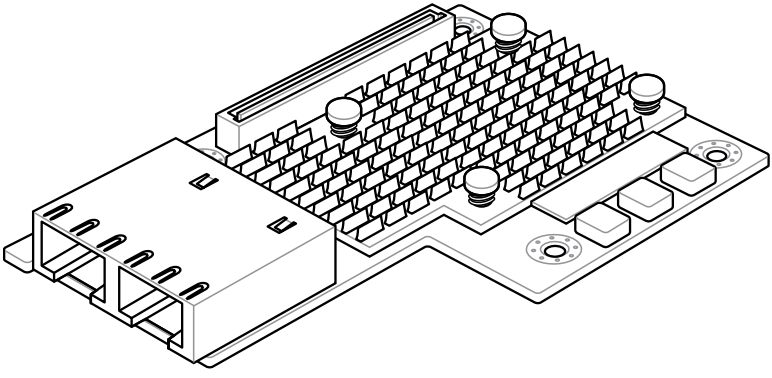
MCI-10G/X550-2T

10 Gigabit/s Ethernet card User Guide



E12760
First Edition
June 2017

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About this guide

This user guide contains the information you need when installing and configuring the server management board.

How this guide is organized

This guide contains the following parts:

- **Chapter 1: Product Introduction**

  This chapter describes the MCI-10G/X550-2T Ethernet card features and the new technologies it supports.

- **Chapter 2: Boot Agent Configuration**

  This chapter provides instructions on setting the Intel(R) Boot Agent XE.

- **Chapter 3: Driver Installation**

  This chapter provides instructions for installing the Ethernet card drivers on different operating systems.

Where to find more information

Refer to the following sources for additional information and for product and software updates.

1. **ASUS websites**

   The ASUS website provides updated information on ASUS hardware and software products. Refer to the ASUS contact information.

2. **Optional documentation**

   Your product package may include optional documentation, such as warranty flyers, that may have been added by your dealer. These documents are not part of the standard package.

Conventions used in this guide

To make sure that you perform certain tasks properly, take note of the following symbols used throughout this manual.

DANGER/WARNING: Information to prevent injury to yourself when trying to complete a task.

CAUTION: Information to prevent damage to the components when trying to complete a task.

IMPORTANT: Instructions that you MUST follow to complete a task.

NOTE: Tips and additional information to help you complete a task.

Typography

Bold text	Indicates a menu or an item to select.
Italics	Used to emphasize a word or a phrase.
<Key>	Keys enclosed in the less-than and greater-than sign means that you must press the enclosed key. Example: <Enter> means that you must press the Enter or Return key.
<Key1+Key2+Key3>	If you must press two or more keys simultaneously, the key names are linked with a plus sign (+). Example: <Ctrl+Alt+Del>
`Command`	Means that you must type the command exactly as shown, then supply the required item or value enclosed in brackets. Example: At the DOS prompt, type the command line: `format a:`

MCI-10G/X550-2T specifications summary

Speed & Ports	10 Gigabit/s Ethernet 10G BASE-T Dual Port
Ethernet Controller PHY	Intel X550 AT2
Connector & module type	RJ45 Copper
Host Interface	PCI-E Gen3 x4
Form factor	OCP 2.0 Mezzanine
Supported Cable Type	Category 6 (Max. length 55 meters) Category 6a (Max. length 100 meters) Category 7 (Max. length 100 meters)
Features	PXE boot iSCSI boot Manageability: NC-SI interface (Supported on port 1) to an external Manageability Controller (MC)

*** Please refer to ASUS website for Approved Vendor List (AVL).**

**** Specifications are subject to change without notice.**

Product Introduction

1

This chapter offers the MCI-10G/X550-2T Ethernet card features and the new technologies it supports.

1.1 Welcome!

Thank you for buying an ASUS® MCI-10G/X550-2T 10 Gigabit/s Ethernet card!

Before you start installing the Ethernet card, check the items in your package with the list below.

1.2 Package contents

Check your package for the following items.

	Standard Gift Box Pack
ASUS MCI-10G/X550-2T Ethernet card	1
Support CD	1
Packing Quantity	1 pc per carton

If any of the above items are damaged or missing, contact your retailer.

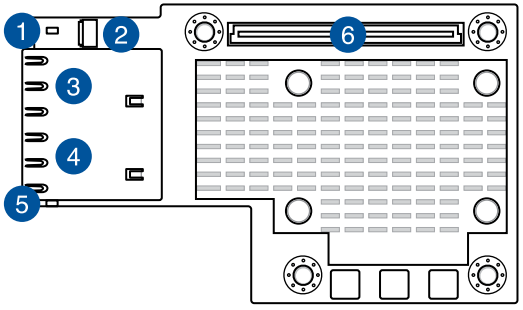
1.3 System requirements

Before you install the MCI-10G/X550-2T Ethernet card, check if the system meets the following requirements:

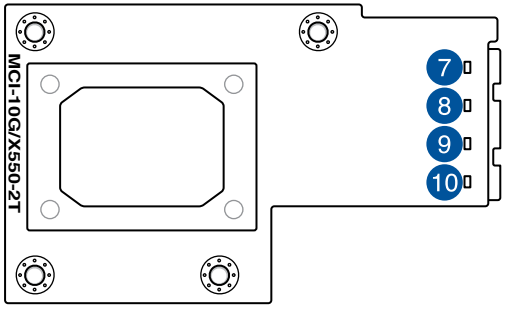
- Server or workstation motherboard with an OCP slot.
- Supported operating systems are Windows® and Linux operating systems. Please refer to ASUS website for the latest updates.

1.4 Card layout

Front view



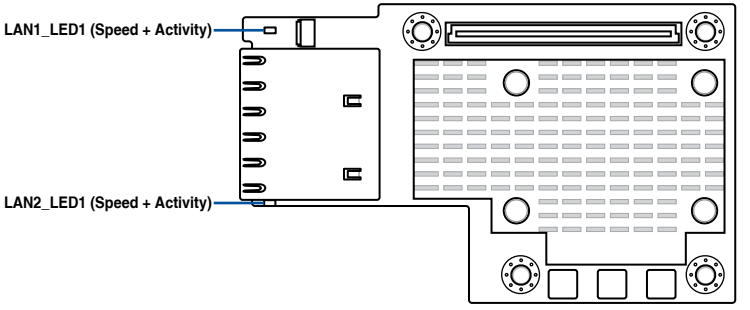
Back view



1. LAN1_LED1 (Speed + Activity)
2. AUXLED_CON1 Connector
3. RJ45 Copper Connector 1
4. RJ45 Copper Connector 2
5. LAN2_LED1 (Speed + Activity)
6. PCI Express Gen3 x8 interface
7. LAN1_LED3 (Speed)
8. LAN1_LED2 (Activity)
9. LAN2_LED3 (Speed)
10. LAN2_LED2 (Activity)

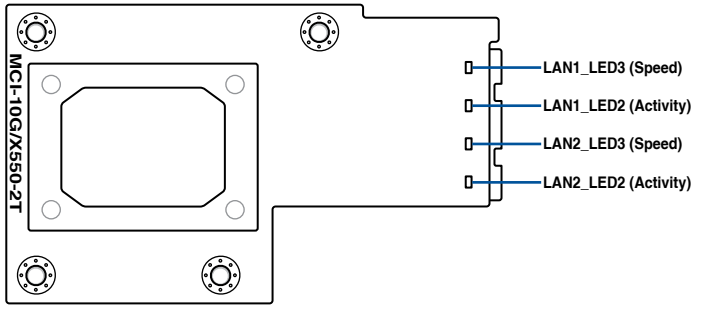
1.5 LED indications

Front view



Activity / Link + Speed LED (LED1)	
Status	**Description**
OFF	No link 100 Mb/s link Data activity and 100 Mb/s link
Yellow	1 Gb/s link
Blinking Yellow	Data activity and 1 Gb/s link
Green	10 Gb/s link
Blinking Green	Data activity and 10 Gb/s link

Back view

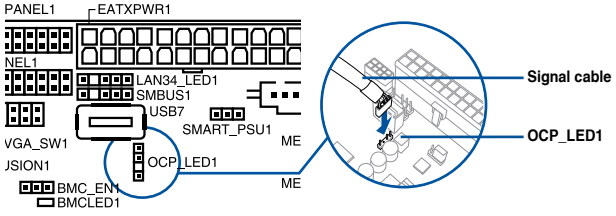


Activity / Link LED (LED2)		Speed link LED (LED3)	
Status	**Description**	**Status**	**Description**
OFF	No activity	OFF	100 Mb/s link
Green	Link	Yellow	1 Gb/s link
Blinking Green	Data activity	Green	10 Gb/s link

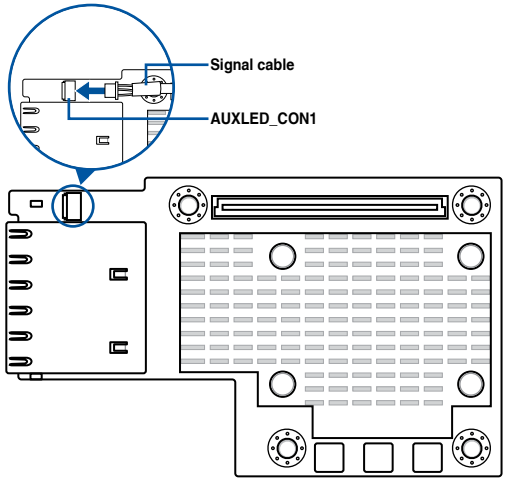
1.6 Installing the MCI-10G/X550-2T Ethernet card

To install a MCI-10G/X550-2T Ethernet card:

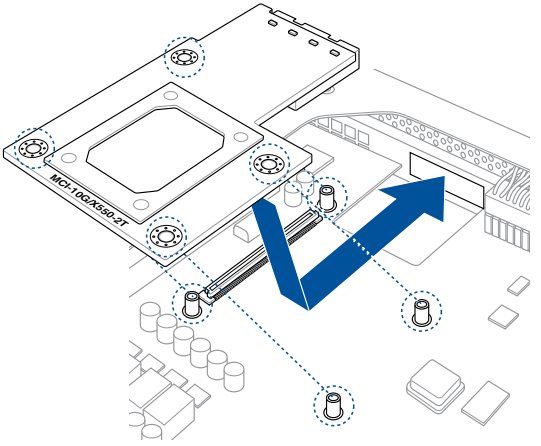
1. Prepare the Mezannine card.
2. Connect the black end of the signal cable to the OCP_LED1 header on the motherboard.



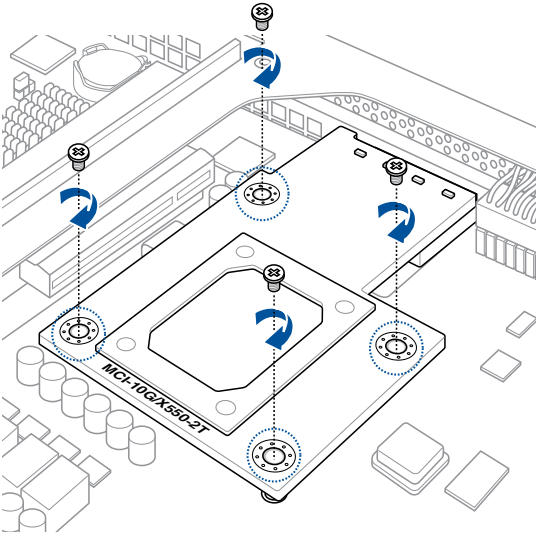
3. Connect the white end of the signal cable to the AUXLED_CON1 Connector on the card.



4. Align and insert the screw holes of the MCI-10G/X550-2T Ethernet card into the stand screws, then insert the ports of the MCI-10G/X550-2T Ethernet card into the port slots on the server chassis as shown.



5. Secure the MCI-10G/X550-2T Ethernet card with the four (4) bundled screws.



Boot Agent Configuration

2

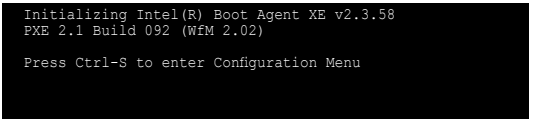
This chapter provides instructions on setting the Intel(R) Boot Agent XE.

2.1 Intel(R) Boot Agent XE

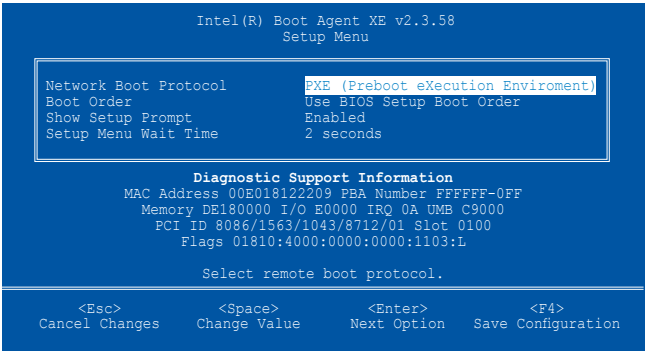
The Intel(R) Boot Agent XE provides hardware-based Ethernet card configurations.

To start the Intel(R) Boot Agent XE and access the main screen:

1. Turn on the system.
2. During POST, press <Ctrl+S> when the following screen appears.



3. From the **Setup Menu** screen, use the Up/Down arrow key to select an item and press <Space> to change the value.



Network Boot Protocol

This item allows you to select the boot protocol.

Configuration options: [PXE (Preboot eXecution Enviroment)]

Boot Order

This item allows you to select the order in which boot devices are queried.

Configuration options: [Use BIOS Setup Boot Order]

Show Setup Prompt

This item allows you to select whether Ctrl+S message appears during initialization.

Configuration options: [Disabled] [Enabled]

Setup Menu Wait Time

This item allows you to select the number of seconds to wait for Ctrl+S during initialization.

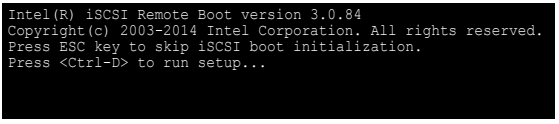
Configuration options: [0 seconds] [2 seconds] [3 seconds] [5 seconds]

2.2 Intel(R) iSCSI Remote Boot

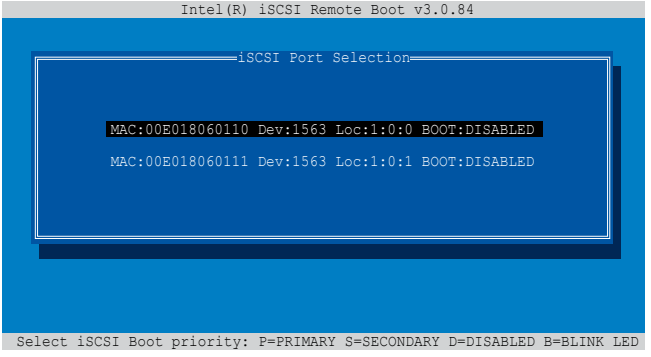
The Intel(R) iSCSI Remote Boot provides hardware-based Ethernet card configurations.

To start the Intel(R) iSCSI Remote Boot and access the main screen:

1. Turn on the system.
2. During POST, press <Ctrl+D> when the following screen appears.

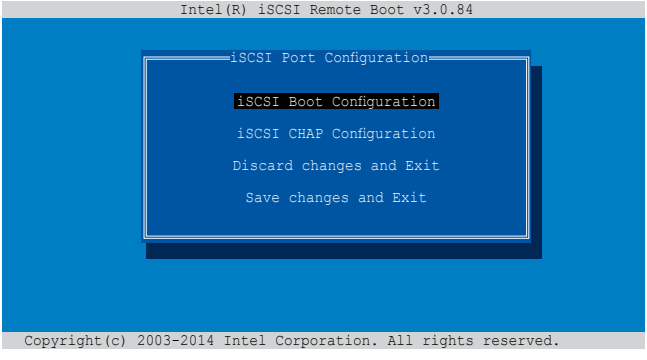


3. From the **iSCSI Port Selection** screen, use the Up/Down arrow key to select an Ethernet device to configure and press <Enter>.

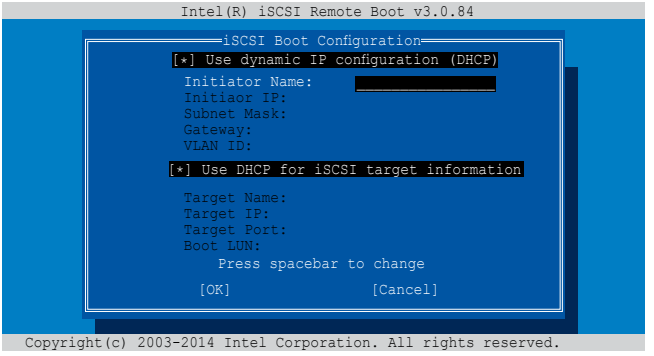


- Press <P> to set the selected item as the primary boot priority, press <S> to set the selected item as the secondary boot priority, or press <D> to disable the selected item.
- Press <B> to blink the LED of the selected item.

4. From the **iSCSI Port Configuration** screen, use the Up/Down arrow key to select an item and press <Enter>.



2.2.1 iSCSI Boot Configuration



Use the Up/Down arrow key to select an item and press <spacebar> to change between Enabled [*] or Disabled [ ].

[*] Use dynamic IP configuration (DHCP)

When Enabled [*], the iSCSI boot host software acquires the IP address from the DHCP server.

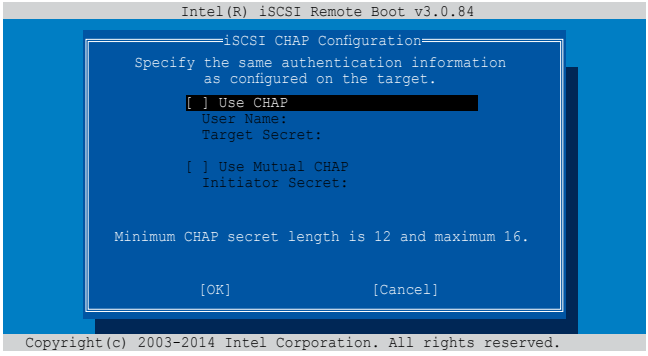
When Disabled [ ], the iSCSI boot host software acquires the static IP address. Key in the necessary parameters.

[*] Use DHCP for iSCSI target information

When Enabled [*], the iSCSI boot host software acquires its iSCSI target parameters from the DHCP server.

When Disabled [ ], the iSCSI boot host software acquires its iSCSI target parameters via the static IP address. Key in the necessary parameters.

2.2.2 iSCSI CHAP Configuration



Use the Up/Down arrow key to select an item and press <spacebar> to change between Enabled [*] or Disabled [ ].

[ ] Use CHAP

When Enabled [*], the iSCSI boot host software uses CHAP authentication when connecting to the iSCSI target. Key in the necessary parameters.

When Disabled [ ], the iSCSI boot host software does not attempt to boot from the iSCSI target after successfully connecting to it. The control will then return to the system BIOS so that the next boot device may be used.

[ ] Use Mutual CHAP

When Enabled [*], the iSCSI boot host software uses a Mutual CHAP authentication when connecting to the iSCSI target. Key in the necessary parameters.

When Disabled [ ], the iSCSI boot host software does not use a Mutual CHAP authentication when connecting to the iSCSI target.

2.3 Intel(R) Ethernet Flash Firmware Utility

The Intel(R) Ethernet Flash Firmware Utility allows you to switch between PXE option ROM and iSCSI option ROM. Note that only one option ROM can be used at a time.

To install the PXE option ROM:

1. Locate the **BootIMG.FLB** and **Bootutil.exe** files in the PXE folder on your SDVD.
2. Copy the **BootIMG.FLB** and **Bootutil.exe** files to a bootable USB storage device.
3. Enter DOS environment.

The utility must run under pure DOS environment. It cannot run in a DOS box on Windows system. You should boot from a DOS floppy without any device drivers

4. Within the DOS environment, enter the directory with the **BootIMG.FLB** and **Bootutil.exe** files.
5. Install the PXE option ROM:

```
bootutil.exe -nic=1 -up=pxe+efi -quiet
```

Port 1 and Port 2 share the same flash.

6. Restart the system.

```
D:\>bootutil.exe -nic=1 -up=pxe+efi -quiet

Intel(R) Ethernet Flash Firmware Utility
BootUtil version 1.6.39.1
Copyright(c) 2003-2017 Intel Corporation

Programming flash on port 1 with flash firmware image
/
Flash update successful

Port Network Address Location Series  WOL Flash Firmware                Version
==== ============== ======== ======= === ============================ =======
  1  00E018122208      1:00.0 10GbE   YES UEFI,PXE Enabled              2.3.58
  2  00E018122209      1:00.1 10GbE   YES UEFI,PXE Enabled              2.3.58


D:\>
```

To install the iSCSI option ROM:

1. Locate the **BootIMG.FLB** and **Bootutil.exe** files in the iSCSI folder on your SDVD.
2. Copy the **BootIMG.FLB** and **Bootutil.exe** files to a bootable USB storage device.
3. Enter DOS environment.

The utility must run under pure DOS environment. It cannot run in a DOS box on Windows system. You should boot from a DOS floppy without any device drivers

4. Within the DOS environment, enter the directory with the **BootIMG.FLB** and **Bootutil.exe** files.
5. Install the iSCSI option ROM:

```
bootutil.exe -nic=1 -up=iscsi -quiet
```

Port 1 and Port 2 share the same flash.

6. Restart the system.

```
D:\>bootutil.exe -nic=1 -up=iscsi -quiet

Intel(R) Ethernet Flash Firmware Utility
BootUtil version 1.6.39.1
Copyright(c) 2003-2017 Intel Corporation

Programming flash on port 1 with flash firmware image
/
Flash update successful

Port Network Address Location Series  WOL Flash Firmware                Version
==== ============== ======== ======= === ============================ =======
  1  00E018122208      1:00.0 10GbE   YES UEFI,PXE Enabled              2.3.58
  2  00E018122209      1:00.1 10GbE   YES UEFI,PXE Enabled              2.3.58


D:\>
```

Driver Installation

3

This chapter provides instructions for installing the Ethernet card drivers on different operating systems.

3.1 Windows® Server OS Driver Installation

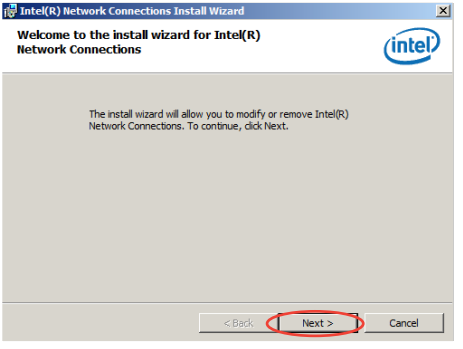
To update the Ethernet card driver for Windows® Server OS:

1. Restart the computer, and then log on with **Administrator** privileges.
2. Insert the Support CD to the optical drive. The Support CD automatically displays the **Drivers** menu if Autorun is enabled in your computer.

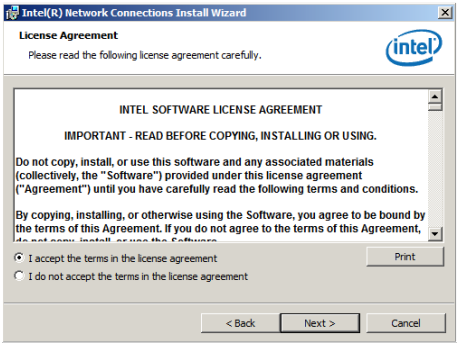
- If Windows® automatically detects the LAN controllers and displays a New Hardware Found window, click **Cancel** to close this window.
- If Autorun is NOT enabled in your computer, browse the contents of the Support CD to locate the file **Setup.exe**. Double-click **Setup.exe** to run the CD.

3. Click **MCI-10G/X550-2T 10GBase-T Network Adapter Driver**, then select **Install Drivers and Software**.

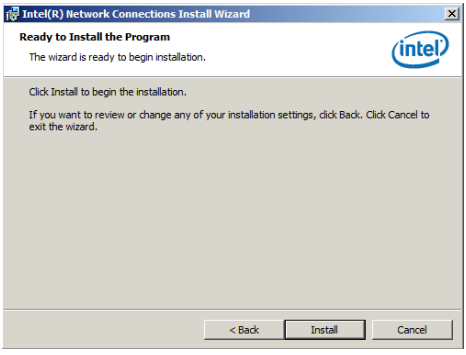
4. Click **Next** when the **Intel(R) Network Connections Install Wizard** window appears.



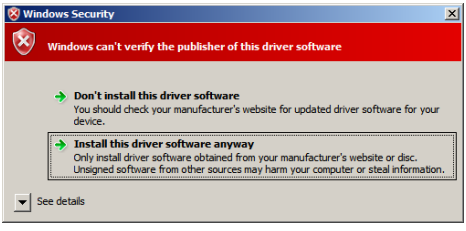
5. Toggle **I accept the terms in the license agreement** and click **Next** to continue.



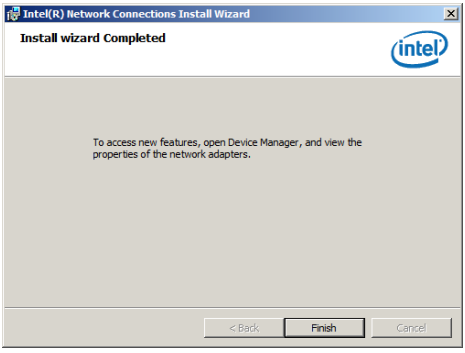
6. Follow the onscreen instructions to complete the installation.



7. If the **Windows Security** window appears during the driver installation, click **Install this driver software anyway** to continue.



8. Click **Finish** to exit the installation wizard.



9. Restart the system.

3.2 Linux OS Driver Installation

To install the Ethernet card driver for Linux OS:

1. Within the Linux Terminal, place the driver in **root/tmp**:

For Red Hat Enterprise Linux 6.5 (Red Hat Enterprise Linux 5.11):

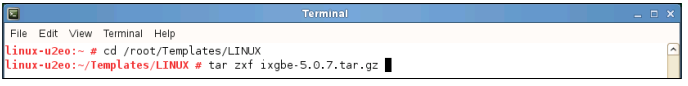
For SUSE Linux Enterprise Server 11.3:

2. Unzip the driver:

```
tar zxf <Version>.tar.gz
```

For Red Hat Enterprise Linux 6.5 (Red Hat Enterprise Linux 5.11):

For SUSE Linux Enterprise Server 11.3:



3. Enter the folder:

```
cd <Version>/src
```

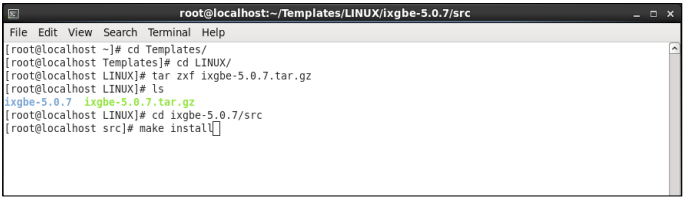
For Red Hat Enterprise Linux 6.5 (Red Hat Enterprise Linux 5.11):

For SUSE Linux Enterprise Server 11.3:

4. Install the driver:

```
make install
```

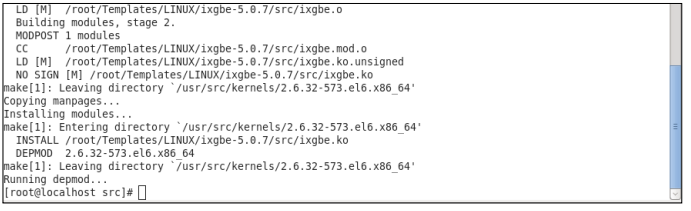
For Red Hat Enterprise Linux 6.5 (Red Hat Enterprise Linux 5.11):



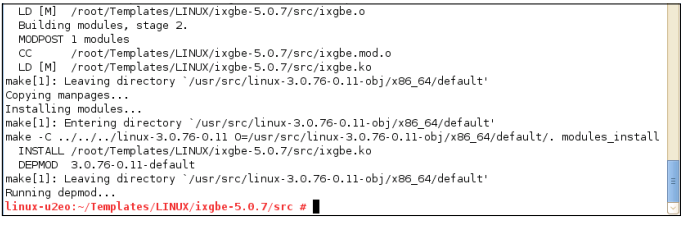
For SUSE Linux Enterprise Server 11.3:

5. Install complete:

For Red Hat Enterprise Linux 6.5 (Red Hat Enterprise Linux 5.11):



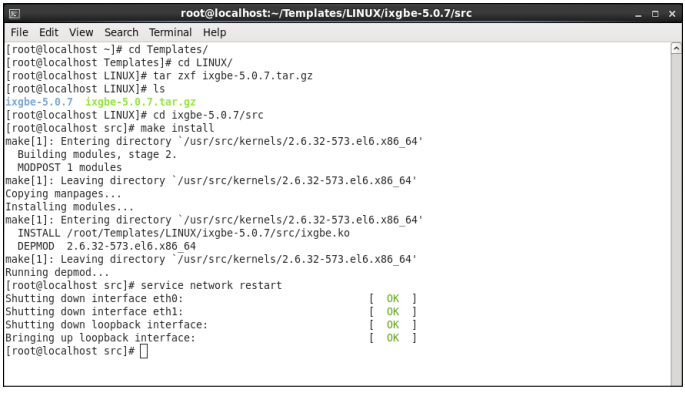
For SUSE Linux Enterprise Server 11.3:



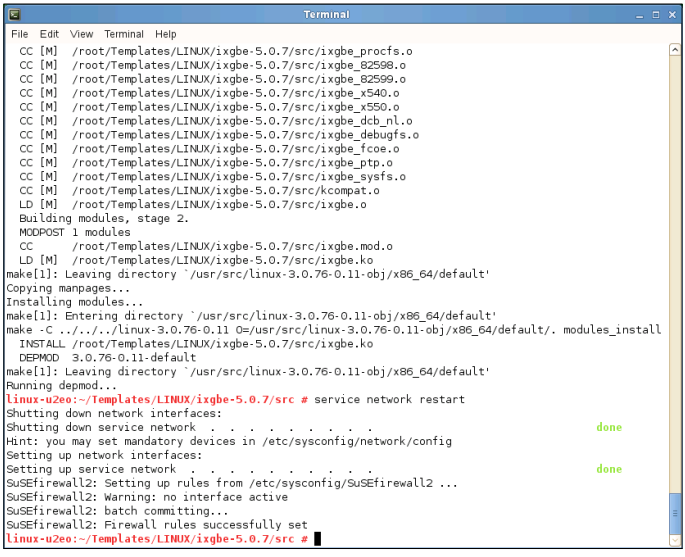
6. Check if the LAN card is detected:

```
service network restart
```

For Red Hat Enterprise Linux 6.5 (Red Hat Enterprise Linux 5.11):



For SUSE Linux Enterprise Server 11.3:



Appendix A

Simplified EU Declaration of Conformity

English ASUSTeK Computer Inc. hereby declares that this device is in compliance with the essential requirements and other relevant provisions of related Directives. Full text of EU declaration of conformity is available at: www.asus.com/support

Français AsusTek Computer Inc. déclare par la présente que cet appareil est conforme aux critères essentiels et autres clauses pertinentes des directives concernées. La déclaration de conformité de l'UE peut être téléchargée à partir du site Internet suivant : www.asus.com/support

Deutsch ASUSTeK Computer Inc. erklärt hiermit, dass dieses Gerät mit den wesentlichen Anforderungen und anderen relevanten Bestimmungen der zugehörigen Richtlinien übereinstimmt. Der gesamte Text der EU-Konformitätserklärung ist verfügbar unter: www.asus.com/support

Italiano ASUSTeK Computer Inc. con la presente dichiara che questo dispositivo è conforme ai requisiti essenziali e alle altre disposizioni pertinenti con le direttive correlate. Il testo completo della dichiarazione di conformità UE è disponibile all'indirizzo: www.asus.com/support

Русский Компания ASUS заявляет, что это устройство соответствует основным требованиям и другим соответствующим условиям соответствующих директив. Подробную информацию, пожалуйста, смотрите на www.asus.com/support

Български С настоящото ASUSTeK Computer Inc. декларира, че това устройство е в съответствие със съществените изисквания и другите приложими постановления на свързаните директиви. Пълният текст на декларацията за съответствие на ЕС е достъпна на адрес: www.asus.com/support

Hrvatski ASUSTeK Computer Inc. ovim izjavljuje da je ovaj uređaj sukladan s bitnim zahtjevima i ostalim odgovarajućim odredbama vezanih direktiva. Cijeli tekst EU izjave o sukladnosti dostupan je na: www.asus.com/support

Čeština Společnost ASUSTeK Computer Inc. tímto prohlašuje, že toto zařízení splňuje základní požadavky a další příslušná ustanovení souvisejících směrnic. Plné znění prohlášení o shodě EU je k dispozici na adrese: www.asus.com/support

Dansk ASUSTeK Computer Inc. erklærer hermed, at denne enhed er i overensstemmelse med hovedkravene og andre relevante bestemmelser i de relaterede direktiver. Hele EU-overensstemmelseserklæringen kan findes på: www.asus.com/support

Nederlands ASUSTeK Computer Inc. verklaart hierbij dat dit apparaat voldoet aan de essentiële vereisten en andere relevante bepalingen van de verwante richtlijnen. De volledige tekst van de EU-verklaring van conformiteit is beschikbaar op: www.asus.com/support

Eesti Käesolevaga kinnitab ASUSTeK Computer Inc, et see seade vastab asjakohaste direktiivide oluliste nõuetele ja teistele asjassepuutuvatele sätetele. EL vastavusdeklaratsiooni täielik tekst on saadaval järgmisel aadressil: www.asus.com/support

Suomi ASUSTeK Computer Inc. ilmoittaa täten, että tämä laite on asiaankuuluvien direktiivien olennaisten vaatimusten ja muiden tätä koskevien säädösten mukainen. EU-yhdenmukaisuusilmoituksen koko teksti on luettavissa osoitteessa: www.asus.com/support

Ελληνικά Με το παρόν, η AsusTek Computer Inc. δηλώνει ότι αυτή η συσκευή συμμορφώνεται με τις θεμελιώδεις απαιτήσεις και άλλες σχετικές διατάξεις των Οδηγιών της ΕΕ. Το πλήρες κείμενο της δήλωσης συμβατότητας είναι διαθέσιμο στη διεύθυνση: www.asus.com/support

Magyar Az ASUSTeK Computer Inc. ezennel kijelenti, hogy ez az eszköz megfelel a kapcsolódó Irányelvek lényeges követelményeinek és egyéb vonatkozó rendelkezéseinek. Az EU megfelelőségi nyilatkozat teljes szövege innen letölthető: www.asus.com/support

Latviski ASUSTeK Computer Inc. ar šo paziņo, ka šī ierīce atbilst saistīto Direktīvu būtiskajām prasībām un citiem citiem saistošajiem nosacījumiem. Pilns ES atbilstības paziņojuma teksts pieejams šeit: www.asus.com/support

Lietuvių „ASUSTeK Computer Inc." šiuo tvirtina, kad šis įrenginys atitinka pagrindinius reikalavimus ir kitas svarbias susijusių direktyvų nuostatas. Visą ES atitikties deklaracijos tekstą galima rasti: www.asus.com/support

Norsk ASUSTeK Computer Inc. erklærer herved at denne enheten er i samsvar med hovedsaklige krav og andre relevante forskrifter i relaterte direktiver. Fullstendig tekst for EU-samsvarserklæringen finnes på: www.asus.com/support

Polski Firma ASUSTeK Computer Inc. niniejszym oświadcza, że urządzenie to jest zgodne z zasadniczymi wymogami i innymi właściwymi postanowieniami powiązanych dyrektyw. Pełny tekst deklaracji zgodności UE jest dostępny pod adresem: www.asus.com/support

Português A ASUSTeK Computer Inc. declara que este dispositivo está em conformidade com os requisitos essenciais e outras disposições relevantes das Diretivas relacionadas. Texto integral da declaração da UE disponível em: www.asus.com/support

Română ASUSTeK Computer Inc. declară că acest dispozitiv se conformează cerinţelor esenţiale şi altor prevederi relevante ale directivelor conexe. Textul complet al declaraţiei de conformitate a Uniunii Europene se găseşte la: www.asus.com/support

Srpski ASUSTeK Computer Inc. ovim izjavljuje da je ovaj uređaj u saglasnosti sa osnovnim zahtevima i drugim relevantnim odredbama povezanih Direktiva. Pun tekst EU deklaracije o usaglašenosti je dostupan da adresi: www.asus.com/support

Slovensky Spoločnosť ASUSTeK Computer Inc. týmto vyhlasuje, že toto zariadenie vyhovuje základným požiadavkám a ostatým príslušným ustanoveniam príslušných smerníc. Celý text vyhlásenia o zhode pre štáty EÚ je dostupný na adrese: www.asus.com/support

Slovenščina ASUSTeK Computer Inc. izjavlja, da je ta naprava skladna z bistvenimi zahtevami in drugimi ustreznimi določbami povezanih direktiv. Celotno besedilo EU-izjave o skladnosti je na voljo na spletnem mestu: www.asus.com/support

Español Por la presente, ASUSTeK Computer Inc. declara que este dispositivo cumple los requisitos básicos y otras disposiciones pertinentes de las directivas relacionadas. El texto completo de la declaración de la UE de conformidad está disponible en: www.asus.com/support

Svenska ASUSTeK Computer Inc. förklarar härmed att denna enhet överensstämmer med de grundläggande kraven och andra relevanta föreskrifter i relaterade direktiv. Fulltext av EU-försäkran om överensstämmelse finns på: www.asus.com/support

Українська ASUSTeK Computer Inc. заявляє, що цей пристрій відповідає основним вимогам та іншим відповідним положенням відповідних Директив. Повний текст декларації відповідності стандартам ЄС доступний на: www.asus.com/support

Türkçe AsusTek Computer Inc., bu aygıtın temel gereksinimlerle ve ilişkili Yönergelerin diğer ilgili koşullarıyla uyumlu olduğunu beyan eder. AB uygunluk bildiriminin tam metni şu adreste bulunabilir: www.asus.com/support

Bosanski ASUSTeK Computer Inc. ovim izjavljuje da je ovaj uređaj usklađen sa bitnim zahtjevima i ostalim odgovarajućim odredbama vezanih direktiva. Cijeli tekst EU izjave o usklađenosti dostupan je na: www.asus.com/support

ASUS contact information

ASUSTeK COMPUTER INC. (Taiwan)

Address	4F, No. 150, Li-Te Rd., Peitou, Taipei 112, Taiwan
Telephone	+886-2-2894-3447
Fax	+886-2-2890-7798
Web site	http://www.asus.com

Technical Support

Telephone	+886-2-2894-3447 (0800-093-456)
Online Support	http://support.asus.com/techserv/techserv.aspx

ASUSTeK COMPUTER INC. (China)

Address	No. 5077 Jindu Road, Minhang District, Shanghai, China
Telephone	+86-21-5442-1616
Fax	+86-21-5442-0099
Web site	http://www.asus.com.cn

Technical Support

Telephone	+86-20-2804-7506 (400-620-6655)
Online Support	http://support.asus.com/techserv/techserv.aspx

ASUS COMPUTER INTERNATIONAL (America)

Address	800 Corporate Way, Fremont, CA 94539, USA
Fax	+1-510-608-4555
Web site	http://usa.asus.com

Technical Support

Support fax	+1-812-284-0883
General support	+1-812-282-2787
Online support	http://support.asus.com/techserv/techserv.aspx

ASUS COMPUTER GmbH (Germany and Austria)

Address	Harkort Str. 21-23, D-40880 Ratingen, Germany
Fax	+49-2102-959911
Web site	http://www.asus.de
Online contact	http://www.asus.de/sales

Technical Support

Telephone	+49-1805-010923*
Support Fax	+49-2102-959911
Online support	http://support.asus.com/techserv/techserv.aspx

* EUR 0.14/minute from a German fixed landline; EUR 0.42/minute from a mobile phone.

DECLARATION OF CONFORMITY

Per FCC Part 2 Section 2. 1077(a)

Responsible Party Name: **Asus Computer International**

Address: **800 Corporate Way, Fremont, CA 94539.**

Phone/Fax No: **(510)739-3777/(510)608-4555**

hereby declares that the product

Product Name : LAN Card

Model Number : MCI-10G/X550-2T

Conforms to the following specifications:

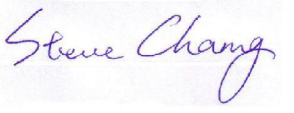
☒ FCC Part 15, Subpart B, Unintentional Radiators

Supplementary Information:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Representative Person's Name : **Steve Chang / President**

Signature :



Date : **Jun. 09, 2017**

Ver. 140331